School Nurse Checklist for Diabetes Care at School

Dates:	
1.	School Nurse is notified that student with diabetes will be attending school.
2.	Arrange a meeting/home visit with parents/legal guardian and student and complete Individualized School Healthcare Plan (ISHP).
	a. Discuss current health status and management of diabetes-care at home.
	b. Observe parent/student performing healthcare procedures.
	c. Discuss parent/student expectations of diabetes care while at school.
	d. Discuss level of care needed in school.
	e. Discuss role of the personnel involved in providing the health care at school and provide and review copies of California Education Code Title 5, Section 49423.5 and California Code of Regulations, Title 5, Section 3051.12.
	 f. Obtain parent/guardian written consent to include the following: 1. To administer healthcare services for school attendance and school related activities 2. To allow the school nurse to communicate with the primary healthcare provider.
	g. Collaborate with parent to develop details of the Individualized School Healthcare Plan (ISHP), potential accommodations and all supplies needed during the school schedule, all school related activities and a 3 day disaster plan.
3.	Obtain physician's specific prescribed written authorization for healthcare services and parent's written consent or the same form.
4.	Assemble Standard Procedures as identified in the IHCP and review with site administrator. The site administrator designates staff and back-up staff to be trained. This may occur before an IEP and/or 504 meeting is convened. Training can begin when parent written consent and physician's written authorizations have been received. Designated staff should not perform standard procedures needed until completion of training and competency is achieved. Interim arrangements may need to be made for student school attendance.
If a 504	Plan is requested or an IEP is determined to be necessary, follow step #5. If not, proceed to step #6.
5.	a. When a 504 Student Study Team or an Individualized Education Plan Team meeting convenes, the team reviews the ISHP and accepts and/or makes modifications/changes as agreed. A copy of the final ISHP is attached to the 504Plan or IEP.
	b. The assessment component of the 504 Plan or IEP must include a statement indicating the attachment of the

c. The Designated Instructional Services (DIS) component of the 504 Plan or IEP must include School Nursing

Services for managing the ISHP and training and supervising designated staff.

ISHP.

___6. Plan, Organize, and Implement designated staff training of <u>Diabetes Basics Training Program</u>, healthcare procedures and implementation of the ISHP:

a. Plan:

- 1) Review CPR dates of designated staff. Arrange for training if needed.
- 2) Using the Diabetes Basics Training Program, standard procedures and the ISHP, develop a training program for designated staff. Include an agenda and time frame for components and sign-in form for documentation of training dates.
- 3) Plan an Inservice for teachers, lunchroom and playground personnel, principal, transportation, coaches, bus drivers, etc. offering a condensed version of the training program emphasizing emergency diabetes care.

b. Organize:

- Duplicate necessary training materials and assemble in orderly fashion for all participants in the training.
- 2) Develop and organize a schedule for training

c. Implement:

- 1) Train all designated staff to a level of 100% competency in knowledge and skills in performing standard healthcare procedures and student emergency response procedures.
- 2) Supervise and monitor staff performance of all procedures and student outcomes. Electronic availability of the school nurse to all trained staff is essential for adequate supervision and support (pager and cell phones for immediate response for problem solving and directions in emergencies).
- 3) Manage ISHP: With parent input, monitor and review outcomes of plan and initiate necessary changes not requiring physician authorization. Maintain current records and authorizations for all changes requiring physician authorization (refer to Parent Consent and Physician's Authorization for Diabetes Management at School and School Sponsored Events form). Inform and/or train designated staff of all changes in procedures and log event and dates.
- 4) Arrange a classroom presentation on diabetes if requested.

Parent Consent and Physician Authorization

For Management of Diabetes at School and School Sponsored Events Individualized School Healthcare Plan (ISHP) and Standard Procedures Will Provide Details for Implementation

Pup	il I	ООВ	School	Grade		
	Physician's Written Authorization: Please initial and check all boxes that apply					
1. 1	8 1	needed eds assistance	If Insulin At School: Brand N	Name and Type:		
	Routine Care of Hypoglycemia When Below 70: Self treatment of mild lows Notify physician when:	for all lows	Dose Preparation By: Pupil Parent	Equipment Used ☐ Syringe and vial ☐ Insulin pen		
3. [Emergency Care of Severe Hypoglycemia: Glucose gel: Conscious Unconscious Glucagon injection: 0.5 mgm 1 mgm Notify physician when:		☐ Parent designee ☐ Licensed nurse # of SQ Insulin Units Determ ☐ Pupil ☐ I	☐ Insulin pump ☐ Inhaler nined By: Licensed nurse		
4.	Care of Hyperglycemia: 240 or above 300 or above Other: Check ketones if 300 or above as follows: By pupil independently Needs Insulin at school:		Written sliding scale as folk Blood Glucose from Blood Glucose from Blood Glucose from Blood Glucose from SQ Insulin Administered By	ows: _ to =Units		
<i>J.</i>	Not at this time Lunchtime dose: use sliding scale Correction lunchtime dose: use sliding scale	e	- -	☐ Parent ☐ Licensed nurse ification of Insulin Pen or Pump #.		
Otho		Carbohydrate rnoon snack	(All parent designees are tra employees of the school or d	ined by the parent and are not listrict)		
We(I servi I will 1 2 3 I aut	Parent Consent for Management of Diabe tes at School We(I), the undersigned, the parent(s)/guardian(s) of the above named pupil, request that the following specialized physical health care service for Management of Diabetes in school be administered to our (my) child in accordance with Education Code Section 49423.5 I will: 1. Provide the necessary supplies and equipment 2. Notify the school nurse if there is a change in pupil health status or attending physician 3. Notify the school nurse immediately and provide new consent for any changes in doctor's orders, I authorize the school nurse to communicate with the physician when necessary. I understand that I will be provided a copy of my child's completed Individual School Healthcare Plan. (ISHP)					
Par	ent/Guardian Signature		Date			
My s acco unlic maxi	Physician Authorization For Diabetes Management In School My signature below provides authorization for the above written orders. I understand that all procedures will be implemented in accordance with Education Code Section 49423.5. I understand that specialized physical health care services may be performed by unlicensed designated school personnel under the training and supervision provided by the school nurse. This authorization is for a maximum of one year. If changes are indicated, I will provide new written authorization (may be faxed) I have instructed					
	I request that the School Nurse provide me with a	copy of the cor	npleted Individualized School He	ealthcare Plan (ISHP).		
_	vsician Name					
Pho	oneAddress		City	Zıp		
Rev	iewed by School Nurse (Signature)		(Date	2)		
Revi	iewed by Principal (Signature)		(Date)			

$Individualized\ School\ Health care\ Plan\ (ISHP)$

Pupil:						
Grade: D.O.B				Educational Placement:		
School:			<u> </u>			
District:						
School Nurse:			Pager #		Cell #	
Parent/Guardian Consent	Date:		Physician	Authorization Date:	<u> </u>	
			Key Contac	ets		
Mother		Home #		Work #	Pager #	
Father		Home #		Work #	Pager #	
Guardian		Home #		Work #	Pager #	
Home Address				City	Zip	
Other Contact (Relations	nip):			Home #	Work #	
Physician				Phone #	Fax #	
Physician Address				City	Zip	
Healthcare Service Needed at School Management of Diabetes at School and School Sponsored Evo			Sponsored Eventss:			
Purpose of an ISHP	The purpose of an Individualized School Healthcare Plan (ISHP) is to provide safe management of healthcare needs and services for pupils at school and during school-related activities.					
healthcare providers, a) Development, in b) The training and			, and school templementation, supervision of	am, is responsible for: and revisions of the ISHI	e student's parent/guardian, P. who will provide healthcare	
3. The ISHP may be a			attached as a d	ocument for a 504 Plan a	and/or IEP.	
changes must have a		must be directed to the school nurse prior to implementation. All physician e a written physician authorization and written parent consent. Revisions, ician authorization, may be made with written parent consent.		itten parent consent. Revisions,		
	5. IS	HP review must	occur annually	and whenever necessary	y to ensure provision of safe care.	

Individualized School Healthcare Plan School Nurse Assessment (Confidential)

Completed Wi	th Parent	and F	upil
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Pupil		DOB	School	Grade
Date	e:	Pupil's Height:		Pupil's Weight:
1.	Vision – Test date	School Record Results:		
2. 1	Hearing-Test date	School Record Results:		
2	T			
3.]	Immunizations			
4.]	Diagnosis/ Current Status	to mg/dl. The mos (date) (Hemog	t recent Hemoglobin A1 C leve	blood glucose control during the
]	Current Health Status and Management of Healthcare at Home (include school attendance if appropriate)			
6.	Other Health Problems			
7 1	Health Agencies/School DIS			
	Service			
8.	Other			
	Healthcare Procedure			
	Requests for School and			
	Special Considerations			
	Observation of Student -			
	Physical Finding			
	Observations of HealthCare			
	Procedures Performed by			
J	Parent/Student			
3.	Other			

Individualized School Healthcare Plan School Nurse Assessment, Continued (Confidential) Completed With Parent and Pupil

Pupil	DOB School	Grade				
Analysis						
Determination of	School nurse (responsible for training, monitoring, and supervising designated staff)					
Level of Care	Designated unlicensed school personnel					
Needed in School	Licensed personnel					
	Pupil:	Needs total care				
	rupii. Independent Inceus assistance Inceus supervision	Needs total care				
Information &						
Explanation of						
Ed Code 49423.5						
& Regulations with Role						
Clarification and						
Question						
Clarification						
A 47 . 4.						
Authorization Forms Reviewed						
and Given to						
Parent						
Discussion of						
Plan with Parent:						
Identify School Goals and						
Nursing						
Intervention						

Individualized School Healthcare Plan (ISHP)

For Management of Diabetes at School Completed With Parent and Pupil

Pupil	DOB	School	Grade
Diabetic Routines At	Daily Snacks:	Time(s)	
School Per Parent	, and the second	Place specified	
Request/Consent		Done independently	_
		☐ Needs reminder	
		Needs daily compliance verification	
	• Extra Snacks:	Before exercise	
	Extra Shacks.	—	
		After exercise	
		10 gms. CHO every 30 minutes during vigorous exercise	
		☐ Needs daily compliance verification	
	• Daily Blood Test:	Time(s)	
		Location for testing	
		By pupil independently	
		Adult verifies results	
		Needs assistance (specify)	
	• Exercise:	None if blood glucose test results are below	mg/dl
	• Lunch Eaten At (time)	Regardless of schedule changes, field trips, disaster,	etc.
	, ,	☐ Needs daily verification of meal eaten	
	• In Event of Field Trips.	all diabetic supplies are taken and care is provided according to	this ISHP
	(a copy is taken on trip)	an diabetic supplies are taken and care is provided according to	tilis isili
	The School Nurse Must Be N	otified Two Weeks Before The Field Trip To Plan For	r Qualified
		Personal To Provide Procedures	
	In Event of Classroom/S	School Parties, food treats will be handled as follows:	
		Pupil will eat the treat.	
		Replace with parent supplied alternative	
		Put in baggie and take home with teacher note.	
		Modify the treat as follows:	
		Would the treat as follows.	
	In Event of Bus Transport	ortation:	
		Blood test given 10 to 20 minutes before boarding. If 70 or	
		less, provide care per Procedure For Mild to Moderate Lo	w Blood
		Glucose and call parent to provide transportation home.	
		☐ Blood test not required.	
	Scheduled After-School	Activities:	
	20110 W 111001 2011001		
Other	(5 10)		
	(Specity):		

Individualized School Healthcare Plan (ISHP) For Management of Diabetes at School (Continued) Completed With Parent and Pupil

Pupil	DOB Se	chool	Grade
Equipment and supplies	Provided By Parent	Provided By Parent (Continued)	
and supplies	<u>Daily Snacks</u> (for AM/PM snack times) Specify:	Insulin Supplies ☐ Insulin pen	
	Extra Snacks (for before, after, and/or during exercise) Specify:	☐ Pre-filled syringes (labeled per dose) ☐ Insulin and syringes ☐ Extra pump supplies such as: ☐ Vial of insulin, syringes ☐ Pump syringe	
	Blood Glucose Meter Kit (Includes meter, testing strips, lancing device with lancet, cotton balls, spot Band-Aids) Brand/Model:	Pump tubing/needle Batteries Tape Sof-Serter Insulin supplies stored:	
	Low Blood Glucose Supplies, (5 day supply)		
	☐ Fast Acting Carbohydrate Drinks: (Apple juice and/or orange juice, sugared soda pop-NOT diet), at least 6 containers.	Emergency Supplies Glucagon kit stored:	
	☐ Glucose Tablets, 1 package or more. ☐ Glucose Gel Products (Insta-Glucose, Monogel or Glutose/2531 Gms.), 2 or	3 day disaster food supply stored:	
	more. Gel Cakemate (not frosting), (19 Gm.,	3 Day Disaster Diabetes Supplies Vial of insulin; 6 syringes	
	mini-purse size), 2 or more. Note: Not used in Emergency Procedure For Severe Low Blood Sugar.	☐ Insulin pen with cartridge and needles ☐ Blood glucose testing kit (testing strips lancir with lancets	ng device
	Prepackaged Snacks (such as crackers with cheese or peanut butter, nite bite, etc.), 5 - 6 servings or more.	☐ Glucose gel product and glucose tablets ☐ Glucagon kit ☐ Food supply (include daily meal plan) stored follows:	
	High Blood Glucose Supplies	Ketone strips/plastic cup	
	☐ Ketone Test Strips/Bottle ☐ Urine cup ☐ Water bottle Note: Timing device may be wall clock or watch	School will include a copy of the ISHP for Diabe Management with the Disaster Supplies. Stored	
	worn by pupil or personnel.	Other Supplies, Specify:	

Individualized School Healthcare Plan (ISHP) For Management of Diabetes at School (Continued)

Completed With Parent and Pupil

Pump Skills Checklist

This form is to be completed by the school nurse with input from the parent/care provider. The school nurse must directly assess specific skills for competency if independent performance is desired. Document student competency on the ISHP. Competency must be accordance with standard procedures.

Pu	pil DOB Schoo	1	Grade
	Pump skill:	Requires Supervision	Independently Performs
1.	Appropriately counts carbohydrates If supervision is required the parents are to provide calculations.		
2.	Calculates appropriate correction dose based on physician's orders		
3.	Calculates total dose based on physician's orders for carbohydrate consumption and correction dose. Refer to Physician Authorization Page		
4.	Programs appropriate bolus If supervision is required then parents can program a bolus delay or school nurse must supervise.		
5.	Adjusts temporary rate for exercise If supervision is required then a temporary basal rate is not recommended at school. Adjustment for exercise will be made by pre-set basal profile at home or with provision of extra carbohydrates as detailed in ISHP.		
6.	Disconnects & reconnects tubing If supervision is required then tubing will NOT be disconnected at school.		
7.	Inserts new infusion set If supervision required then parents are responsible for proper insertion.		
8.	Uses Universal Precautions for site insertion		
9.	Fills reservoir and primes tubing If supervision required then parents are responsible for filling and priming.		
10.	Trouble shoots alarms appropriately Child to report any alarm to teacher /school staff.		
11.	Appropriately identifies high & low blood glucose levels		

Individualized School Healthcare Plan (ISHP) For Management of Diabetes at School (Continued)

Completed With Parent and Pupil

Pupil		DOB	School	I	Grade	
School Day Time Schedule	Procedure Perform	ned	Pro	cedure Performed By	Location for Procedure	
Designated Staff	for All Procedures			Completed T	raining Date	
		Copy of ISHI	P Given	to		
		_				
		_				
Completed Date of 1	SHP		Date P	arent Received Copy		
Parent Signature_			Date			
School Nurse Sign	School Nurse Signature			Date		

Individualized School Healthcare Plan (ISHP) For Management of Diabetes at School (Continued) **Evaluation Log for School Nurse to Maintain**

Pupil	DOB	School	Grade
Date:	Outcome	Revisions/New Plan	School Nurse Initials
	_		
Date	School Nurse Signature	Initial	

Diabetes

General Information

Diabetes is a disorder that occurs when the pancreas does not produce enough insulin. Insulin is required for cells to use energy obtained from sugar and starches. Most children require insulin injections daily, usually AM and PM. Managing diabetes requires a daily balance of insulin, food and exercise. This assists in achieving proper blood glucose levels for healthy living and prevention of diabetes complications.

Goals for Management of Diabetes at School

- 1. To provide for compliance with daily diabetic routines.
- 2. To train designated personnel to recognize the signs of Low Blood Glucose (Insulin Reaction/Hypoglycemia), recognize the signs of High Blood Glucose (Hyperglycemia), provide assistance for restoring appropriate glucose levels, and/or obtain emergency care.
- 3. To promote pupil self-help skills as appropriate.

Pupils with diabetes may experience the following conditions:

- A. **Insulin Reaction (Hypoglycemia)** is a condition of abnormally low blood glucose. This is caused by not eating enough food, extra exercise, skipping a meal, taking too much insulin, or illness (especially vomiting and diarrhea). Symptoms may be gradual or sudden and, if not treated, can result in loss of consciousness or convulsions.
- B. **Diabetic Acidosis** (**AKA Hyperglycemia**): A condition when blood sugar is too high over an extended period of time. This is caused by not taking enough insulin for the amount of food eaten, not exercising enough, stress, or illness. Most common signs may be extreme thirst, frequent urination, dry skin, hunger, blurred vision, lethargy, drowsiness, loss of energy, nausea/vomiting, change in mood or personality, and/or fruity breath odor. Undiagnosed diabetics often seek initial medical care when signs of high blood sugar become apparent.
- C. Ketoacidosis (Diabetic Coma) is a potentially life threatening condition that may occur during periods of extreme low blood glucose or high blood glucose. At such times, the body may burn fat, as an alternate source of glucose, in an attempt to provide energy. Ketones are produced as a by-product of such fat metabolism. This is an inefficient way to produce energy and can cause side effects of lethargy, headache, nausea, vomiting, rapid breathing, and eventually Ketoacidosis.

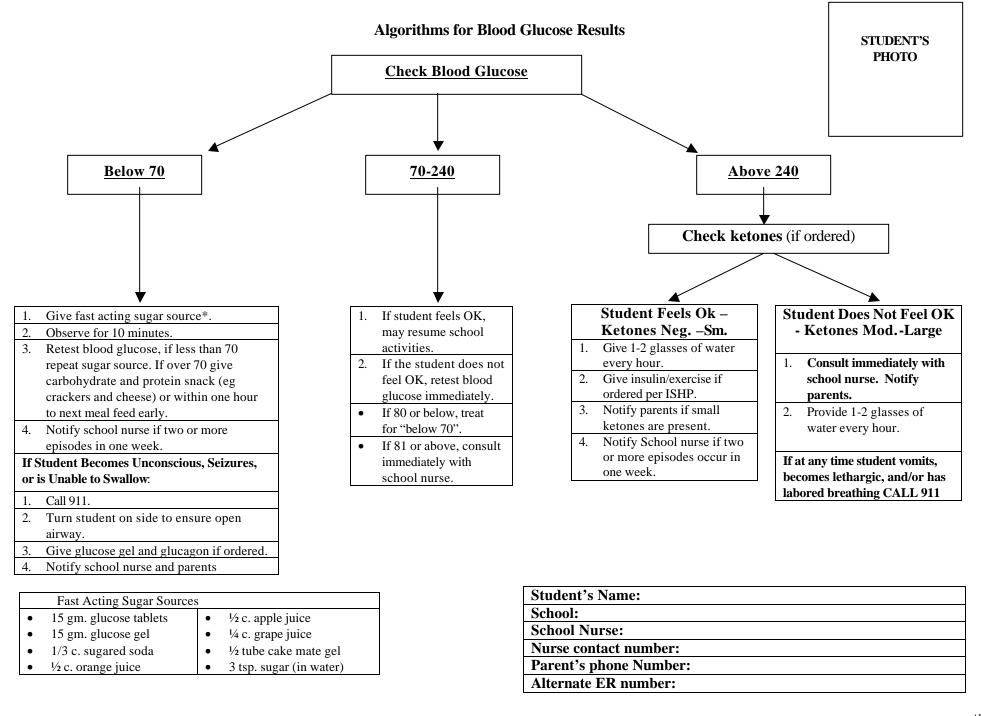
Blood Glucose Testing

General Information

- 1) To determine the level of blood glucose at designated testing times or when symptoms of hypo/hyperglycemia occur (refer to specific procedure).
- 2) Regular monitoring of blood glucose levels contribute towards proper management of diabetes. This should be available to student in school whenever and wherever necessary
- 3) Follow specific manufacturer's instructions for operating meter.
- 4) Non-diabetic blood glucose levels range between 70-110 before a meal. Appropriate ranges for a diabetic vary depending on age and the ability to balance insulin, diet, and exercise.
 - For students under 5 or 6 years of age most blood glucose levels should be between 100 and 200. Expect some readings below 100 and some above 200. If more than 25% of the readings are above 200 or below 100, the management plan may need to be adjusted.
 - For older and teenager students most blood glucose readings should be between 80 and 150. Expect some readings below 80 and some above 150. If more than 25% of the readings are below 80 or above 150 then the management plan may need to be adjusted
- 5) Parent/care provider to supply necessary equipment for performing procedures at school.

Standard Procedure for Blood Glucose Testing

Pupil	DOB School	Grade
Equipment and Supplies	 Alcohol prep pad Finger lancing device (Lancet, Autolet, Penlet, etc) Blood glucose testing meter such as Advantage, Elite One Touch etc. 	4. Blood testing strips for specific electronic meter. Kleenex or cotton balls 5. Gloves 6. Log Book
	Essential Steps	Key Points & Precautions
Student's h the site, how	s and area to be tested with soap and water. Put on gloves. ands must be washed as well. This is sufficient for prepping wever, alcohol may be used for further prepping. (The site st be dry before pricking.)	Alcohol may cause toughening of the skin or burning sensation. If moisture (water or alcohol) remains on the skin it may alter test results.
manufactur	se testing strip into electronic meter according to er's instructions.	
•	cing device according to manufacturers instructions.	
level of the	ger for site use the finger tip sides. Hang the arm below the heart for 30 seconds to increase blood flow, then gently fingertip in a "milking" fashion to further increase the blood he site.	The tops of the fingertips may be more sensitive. The sides of the fingers have less blood flow. Different sites can be used such as the forearm and top of thigh.
downward	e site with the lancing device. Gently squeeze the finger in a motion to obtain a large enough drop of blood to cover the test o 1/4" in diameter).	
6. Place blood manufacture	onto testing strip and complete instructions according to er.	
7. Record resu	lts in Procedure Log. Refer to Appendix for samples of blood s.	Refer to "Algorithms for Blood Results" for management of specific blood sugar level (page 2).



Standard Procedure for Mild or Moderate Low Blood Glucose Hypoglycemia/Insulin Reaction

Pupil	DOB	School		Grade
Equipment and Supplies	 Blood glucose meter kit Fast acting carbohydrates i.e.: apple juice; or Glucose tablets; Glucose gel such as Insta-Glucose, Monoge 	crack	and protein snack i.e.: prepackaged ters/cheese or peanut butter, ½ sandwich, 2 m crackers with ½ cup milk, Nite Bite,	
	Essential Steps			Key Points & Precautions
	ognize signs/symptoms of low blood glucose; ask (Pupil's known signs/symptoms are checked b		iow	
	Mild Symptoms	Moderate Symp	ptoms	If Severe Symptoms such as:
Head ache Moist skin, swo Shakiness Pale skin Sudden hunger Stomach ache	Droopy eyelid Erratic behavio Slurred speech Loss of coordin Confusion	or	Unable to swallow, combative, uncooperative, unconscious, seizure. Proceed immediately to Procedure for Severe Low Glucose.	
2. Test blood (i	f testing equipment available), record results. If		ows:	If moderate symptoms, provide immediate adult supervision.
 4 oz. (½) 3 glucoso Glucoso 	ne (1) of the following fast acting carbohydrates: cup) apple juice or orange juice (or regular soda pe tablets (chewed thoroughly before swallowing) gel (i.e.: 15 gm. Insta-Glucose -or- 15 gm. Monogel Cakemate (19 Gm, mini-purse size).	oop).		Treat "on the spot"; do not send elsewhere - and - If none of the listed fast acting carbohydrates, use 2 tsps. sugar or honey, - or - 4 oz. Milk or fruit punch, etc.
 Pupil sta 	10 minutes, then check for improvement: tes symptoms are gone and appears OK. ucose over 70 per pupil retest.			
glucose tabl - and - If still no im • If no i	vement, repeat Step 2, a and b (second attem lets - or – 15 gm. glucose gel product, if available. provement, repeat again (3rd attempt & if needed improvement after third attempt, call parent and simprovement after fourth attempt, call parent and	If in classroom and retest is needed, request health office assistance. - and - If pupil becomes unable to participate in care, proceed immediately to Emergency Procedure for Severe Blood Glucose.		
 (d) When symptoms subside, eat one of the following: Carb. and protein snack if over 1 hour until lunch or snack time, or Lunch or snack, whichever is due within the hour, AND After eating meal/snack, resume classroom activities if fully recovered, or have health office call parent for assistance if not fully recovered. 				
(e) Document ca	are on Procedure Log, and notify parent			
(a) If 71 or	ows if blood glucose is 71 or above on initial test; above and feeling low/not well, repeat test to ver 60 or less and still feeling low or not well, treat fow Blood Glucose (Step 2, a- e, above). It or above and still feeling low or not well, constant 240 and feeling OK, no treatment indicated ar above, see procedure for High Blood Glucose	School nurse will advise regarding further care.		

Standard Emergency Procedure for Severe Low Blood Glucose Hypoglycemia/Insulin Reaction Glucose Gel Followed by Glucagon Injection

Pupil	DOB	School	Grade			
Equipment and Supplies	Glucose gel Glucagon kit	3. Regular (no 4. Blood gluc	ot diet) soda pop ose meter kit			
	Essential Steps		Key Points & Precautions			
Verify signs of se uncooperative, sei	evere low blood glucose: Unable to swallow, zures.	unconscious, combative,	Signs are so severe that pupil is unable to participate in care.			
	2. Place pupil on side - or - in upright position if restless/uncooperative, AND Have someone call paramedics, school nurse, and parent. If seizure occurs, follow standard seizure procedure.					
3. When pupil is ab• 15 Gms of glucose-and	gel: ½ tube Insta-Glucose - or - 1 pkt. Monogel or Glutose	If able to swallow but not fully alert, position head to one side for preventing aspiration.				
	soda pop (not diet) as tolerated until paramed	lics arrive. Avoid orange				
	juice. Glucagon may cause nausea/vomiting. 4. Give Glucagon injection (use procedure below).					
	le to swallow, repeat Step 3, - and - Give Stated until paramedics arrive.	Avoid orange juice. Glucagon can cause nausea/vomiting.				
6. When paramedication transported, notice	s arrive, pupil will be transported for medic fy physician.					
7. Document on Pro	cedure Log.	·				

How to Prepare and Inject Glucagon

Equipment and Supplies	Glucagon Kit (Dilutent in syringe and vial of Glucagon powder) Alcohol wipes	3. Band-Aids 4. Sharps Container
	Essential Steps	Key Points & Precautions
	Prepare Glucagon syringe:	
1. Remove vial	cap, clean vial top with alcohol, remove needle cover.	In an emergency, cleaning vial top with alcohol can be eliminated.
	its of syringe into vial (held upright).	
3. Swirl vial ger	ntly until dissolved/clear.	
4. Hold vial up	side down and withdraw all solution.	
5. Withdraw ne	edle from vial, hold syringe upright, and remove air/bubbles from	
syringe.		
	Administer Glucagon:	
1. Expose injec	tion site (upper, outer area of thigh or arm).	
2. Hold syringe	safely; use other hand to clean injection site with alcohol.	District policy may require gloves for
3. "Pinch up" sl	xin/muscle (still holding alcohol wipe).	
4. Insert needle	straight into muscle of buttocks, arm or thigh and inject glucagon.	
5. Withdraw new	edle while pressing gently with alcohol wipe or cotton ball at injection	
	ction site for 10 seconds; apply Band-Aid if needed.	
7. Put used sy	ringe and vial in Sharps container.	If Glucagon is prepared and not used, it is only good for one month if kept refrigerated.

Standard Emergency Procedure for Severe Low Blood Glucose
Hypoglycemia/Insulin Reaction
Glucagon Injection Followed By Glucose Gel When Able To Swallow

Pupil	DOB School	ol	Grade
Equipment and Supplies	Glucose gel Glucagon kit	3. Regular (n 4. Blood gluc	ot diet) soda pop ose meter kit
	Essential Steps		Key Points & Precautions
Verify signs of severe combative, uncooperate	Signs are so severe that pupil cannot participate in care.		
2. Place pupil on side - o Have someone call pa	, AND	If seizure occurs, follow standard seizure procedure.	
3. Give glucagon injection	on (use procedure below).		
 15 gms. of glucose gel: and - Give sips of regular so 	swallow, give one of the following: 1/2 tube Insta-Glucose - or - 1 pkt. Monogel or Glutose oda pop (not diet) as tolerated until paramedics arm may cause nausea/vomiting.	ive. Avoid	If able to swallow but not fully alert, position head to one side for preventing aspiration.
5. When paramedics a transported, notify p	rrive , pupil will be transported for medical hysician.	care. When	
6. Document on Procedu			

How To Prepare And Inject Glucagon

Equipment and Supplies	 Glucagon Kit (Dilutent in syringe and vial of glucagon powder) Alcohol wipes 	3. Band-Aids4. Sharps Container		
	Essential Steps	Key Points & Precautions		
	Prepare Glucagon syringe			
1. Remove vial	cap, clean vial top with alcohol, remove needle cover.			
2. Inject conter	nts of syringe into vial (held upright).			
3. Withdraw no	eedle; hold syringe safely upright,			
4. Rotate vial g	ently/vertically (with other hand) until dissolved/clear.			
	side down, reinsert needle, and withdraw all solution.			
	edle from vial, hold syringe upright.			
7. Remove air/l	pubbles from syringe -then- create dribble at needle tip.			
	Administer Glucagon:			
1. Expose injec	tion site (upper, outer area of thigh or arm).			
2. Hold syringe	e safely; use other hand to clean injection site with alcohol.	District policy may require gloves for injections		
3. "Pinch up" s	kin/muscle (still holding alcohol wipe).			
4. Insert needle in) and injec	e straight into muscle of buttock, arm or thigh and inject glucagon.(straight t glucagon.			
5. Withdraw needle while pressing gently with alcohol wipe or cotton ball at injection site.				
6. Massage inje	ection site for 10 seconds; apply Band-Aid if needed.			
7. Put used syr	inge and vial in Sharps container.	If Glucagon is prepared and not used, it is only good for one month if kept refrigerated.		

Standard Emergency Procedure for Severe Low Blood Glucose Hypoglycemia/Insulin Reaction Glucose Gel Only

Pu	pil	DOB	School		Grade
Equipment and Supplies		Glucose gel Glucagon kit	. Glucagon kit 4. Blood gluco		ot diet) soda pop cose meter kit indicated)
		Essential Steps			Key Points & Precautions
1.	Verify signs of severe low blood glucose: Unable to swallow, unconsciousness, combative, uncooperative, seizures.			Signs are so severe that pupil is unable to participate in care.	
2.	Place pupil on side - or Have someone call para	AND	If seizure occurs, follow standard seizure procedure.		
3.	3. Place one of the following in cheek pouch closest to ground and massage: • Glucose gel: 15 gm.Insta-Glucose - or -			sage:	Maintain head position to one side prevent aspiration
		15 gm Monogel or Glutose			
4.	 4. When pupil is able to swallow, repeat Step 3, - and - Give sips of regular soda pop (not diet) as tolerated until paramedics arrive. 				Avoid orange juice. Glucagon can cause nausea/vomiting.
5.	When paramedics arriv transported, notify phys				
6.	Document on Procedure				

Standard Procedure for High Blood Glucose Hyperglycemia

Pupil	DOB	School		Grade	
Equipment 1. Blood glucose meter kit 2. (If Indicated) Ketone test	strips/bottle			l) Clean jar or urine cup l) Insulin supplies	
Essential S	teps			Key Points & Precautions	
1. Verify, according to test results, a high blood g	lucose as follows	s:			
240 or above 300 or above	Other (spe	ecify)			
2. Initiate care as checked below: • Give 1 - 2 glasses of water every hour. • Notify parent of blood test results when	of Insulin per gement, # of	Pupil must not exercise if Ketones are present. A correction dose of insulin is given at mealtime or bedtime for control of blood sugar above 240 to 300.			
3. If pupil is feeling OK , resume classroom activit	ies with parent ap	pproval.			
4. If pupil develops nausea/vomiting and/or rapid and Parent immediately.	F . F				
5. Document care on Procedure Log.					

Standard Procedure for Testing Urine Ketones

	Essential Steps	Key Points & Precautions
1.	Saturate the test strip with urine by one of the following: Pupil to hold test strip in urine flow. Pupil to urinate in cup/jar, then strip is dipped into urine.	If assisting the pupil, wear disposable gloves during this procedure.
2.	Wait for test strip to develop per directions on test strip bottle.	
3.	Compare color of strip to chart on bottleResults will be read as negative, small, moderate, or large. If results are moderate or large, call parent to take pupil home for observation and/or medical care.	
4.	Record results on Procedure Log.	

Blood Ketone Testing



The purpose of this procedure is to determine the level of blood ketones as designated on physician authorization or when symptoms of hyperglycemia occur (refer to specific procedure).

- 1. Testing the blood for ketones is considered to be more accurate than urine testing for ketones. Blood ketone testing reflects time accuracy whereas urine ketones reflects a time delay. The monitoring of blood ketone levels can assist in proper management of diabetes
- 2. Follow specific manufacturer's instructions for operating meter.
- 3. Follow manufactruer's guidelines for ketone ranges (negative or "normal liimits", moderate and large or "at risk for possible ketoacidosis".
- 4. Parent/careprovider to supply necessary equipment for performing procedures at school.

Standard Procedure for Blood Ketone Testing

Pup	oil	DOB School	l Grade
	UIPMENT D SUPPLIES	 Alcohol prep pad Finger lancing device (Lancet, Autolet, Penlet, etc) Blood ketone testing meter such as Precision Xtra Blood testing strips for specific electronic meter. 	Kleenex or cotton ballsGlovesLog Book
		ESSENTIAL STEPS	KEY POINTS AND PRECAUTIONS
	be washed as we alcohol may be ubefore pricking.)	n soap and water. Put on gloves. Student's hands must ll. This is sufficient for prepping the site, however, used for further prepping. (The site selected must be dry	Alcohol may cause toughening of the skin or burning sensation. If moisture (water or alcohol) remains on the skin it may alter test results
	manufacturer's i		
		mechanism in the finger-lancing device	
	level of the heart	the top sides of any fingertip. Hang the arm below the for 30 seconds to increase blood flow, and then gently ertip in a "milking" fashion to further increase the blood e.	The tops of the fingertips may be more sensitive. The sides of the fingers have less blood flow. Note: Other sites can be used such as the forearm or tops of the thighs. A lancing device that is specially designed for these areas must be used.
		with the lancing device. Gently squeeze the finger in a on to obtain a large enough drop of blood to cover the test in diameter).	
	Place blood onto manufacturer.	testing strip and complete instructions according to	
	moderate or large	all, notify school nurse and parent. If results are e, call parent to take pupil home for close observation are; notify school nurse.	
8.	Record results in	Diabetes Monitoring log.	Refer to standard procedure for hyperglycemia for specific treatment.

Insulin Administration

General Information

- A. Insulin is a hormone constructed of proteins that is normally produced by the pancreas. Synthetically manufactured insulin is produced for diabetics who lack this hormone. Several days without insulin can cause a life-threatening condition of keto-acidosis, coma and eventually death.
- B. The number of insulin units to be given is ordered by the physician or nurse practitioner. The amount or dose of insulin will depend on several factors: body size, blood glucose levels, meal plan, and exercise. A sliding scale may be used i.e. the number of insulin units to be given is based on the blood glucose reading (refer to procedure for Blood Glucose Testing).
- C. Insulin can be affected by extremes in temperature, which can denature the protein and decrease or eliminate its effect. Insulin remains stable at temperatures between 40 75 degrees. Once insulin is opened, the date should be written on the vial. Opened insulin should be stored in the refrigerator and used for 1 month. Extra vials should be stored in the refrigerator to assure temperature consistency. Unopened vials that are stored properly are good until the expiration date. Refer to manufacturer's instructions to ensure proper storage.
- D. Insulin doses are measured in "units". There are 10 milliliters in one vial of insulin, which is equivalent to 1000 units. One unit of insulin can alter a blood glucose level therefore it is **imperative that the ordered dosage be EXACT!**
- E. Insulin injections are given subcutaneously (area between the skin and the muscle). Sites should be rotated to avoid scar tissue or fatty cell growth under the skin.
- F. School staff members (teachers, recess monitors, health aides, ancillary staff, bus drivers, substitutes, etc) who are responsible for the student with diabetes need to be educated regarding hypo/hyperglycemia standard procedure. Hypoglycemia is most likely to occur at insulin peak action times (refer to "Insulin Action Times", attachment).
- G. Regular or Humalog are short acting insulins and are used for meal coverage or "spot dosing" and correction doses (doses given in order to decrease an elevated blood glucose). If an extra dose of short acting insulin is given, the blood glucose should always be checked approximately 30 minutes later.
- H. Insulin delivery methods include a syringe, an insulin pen, an insulin pump, or several tools that can be used to assist with injection and/or delivery. Separate procedures have been written for the administration by syringe, insulin pen and pump.
- The school nurse must be notified if additional medication is being used by the student. Other medications and drugs can increase or decrease the effect of insulin. Insulin drug interactions can include:
 - Metoprolol, propranolol; hyperglycemia or hypoglycemia may occur. Use together cautiously.
 - Alcohol, corticosteroids, dextrothyroxine, estrogens, glucagon, rifampin, thiazide diuretics, thyroxine; decrease insulin response. Monitor blood glucose.
 - Anabolic steroids, clofibrate, guanethidine, alofenate, MAO inhibitors, phenylbutazone salicyates, mulfonamides, oral anticoagulants; increase insulin response. Monitor blood glucose.

In the event of a disaster, if a credentialed school nurse is not available, the administration of insulin by others would be considered prudent and permissible by law. It is strongly recommended that the parents/care providers discuss their individual situation with school personnel so that guidelines and precautions can be addressed in advance (refer to guidelines for Diabetes Care at School During a Disaster). This procedure can be copied and placed in a baggie with the insulin supply for use during a disaster.

Standard Procedure for Insulin Administration by Injection

Puj	pil	DOB	School	Grade	
	Equipment1.Vials of insulin (extra 3-day supply for diagrams)And Supplies2.Syringes with needles.3.Cotton balls		isaster preparedness)	4. Alcohol swabs5. Sharps container (each school should have its own Sharps container)	
		Essential Steps	Key	y Points & Precautions	
1.	Wash hands.		Implement Universal Pro	recautions at all times.	
2.	Assemble insu	llin(s), syringe, cotton ball, and alcohol.			
3.	temperature.	ld, warm in the palm of hand to room	Injecting cold insulin ca	an cause pain and may affect absorption.	
4.	colored cap. I	bottle of insulin, remove the flat, Do not remove the rubber stopper or I under the cap.			
5.	between the pa a few times. D not use.	will require mixing. Gently roll the bottle alms or turn the bottle over from end to end to not shake. If any clumps are visible do per tops with alcohol and let dry for a few		protein to denature and decrease the potency. on that the protein has been denatured.	
6.	seconds.				
7.	field." (If only proceed to #8 to the number bottle upright	ap from the syringe and place in a "clean y Humalog or regular insulin is used then and Skip #9). Fill the syringe with air equal of units of NPH insulin needed. Keep the and inject air into the NPH or Lente bottle. ringe out of the bottle.	Air is always injected into the longer acting insulin first. Air is always injected to prevent creating a vacuum		
8. Inject air into regular or Humalog insulin bottle and with syringe remaining in bottle, invert and pull plunger back beyond the number of units desired. Keeping the syringe in an upright-position, clear any air by pulling plunger back and tapping syringe to raise air bubbles to the top. Push plunger to desired amount of units, ensuring that no air bubbles remain and withdraw the syringe.			potential contamination	nlinis always dran up first. This avoids in of long acting insulin into short acting (which ime of regular insulin). Air bubbles in the esired dose.	
9.	Inject needle in number of NP	nto NPH or Lente bottle and withdraw exact H/Lente units to be given. Total number of all the Regular unit dose plus the NPH/Lente	in the syringe after with insulin is inadvertently discarded and redrawn. NPH/Lente bottle to rid	Ou NPH equals 15 total units If there is any air ndrawing the needle, attempt to clear. If any pushed out, the entire dose should be. Avoid pushing the plunger up in the lair. This could inadvertently push regular H/Lente bottle and alter the entire dose.	
10.	be used and pr	on the cap in a "clean field" Select the site to rep with alcohol and let dry. If area is dirty, h soap and water and dry.	absorption is in the lower arms, tops of the thighs	ue can be used for injection sites. The best ver abdomen, followed by the upper, outer s and lastly the upper areas of the buttocks. the warmth from a Jacuzzi) also hastens ed area.	
	hand, hold the upward, like a pocket" (area pinched up ski to five second needle while a for 10- 15 second		care to avoid injecting in This will help to prevent	tty tissue may require a 90 degree angle. Take into the muscle, as it will hastens absorption at leakage from the site. Do not massage the issue and hastens absorption.	
	container.	ringe with needle intact into a sharps			
13.	Document on	a Procedure log.			

Insulin Pen Delivery Systems

General Information

An insulin pen is an insulin delivery system that has the visual appearance of a writing pen; it consists of a cartridge holder (insulin must be purchased in prescribed cartridges), a piston rod (this is a screw mechanism that adjusts the desired dose), a dose indicator window (dose is indicated by visual numbers), a push button (this delivers the insulin), and a pen encasement.

The purpose of Insulin Pen Delivery System in School is to provide insulin with a convenient and accurate device at school. Insulin pens will assist in preventing dose errors that may occur with a syringe and vial.

Some pens can be purchased with the insulin cartridge already in place (these are considered "disposable pens") and other pens require "loading" of a specific insulin cartridge.

Storage of cartridges may or may not require refrigeration. Specific manufacturer's instructions regarding handling and storage of insulin cartridges must be followed.

There are multiple companies that manufacture insulin pens. A specific brand of insulin cartridge is prescribed by the student's physician. Specific manufacturer's instructions must be followed. The following companies currently manufacture insulin pens:

- A. **B-D Pen:** For use with all brands of 150-ml insulin cartridges; delivers 1 to 30 units in 1-unit increments; works with B-D Ultra-Fine Original (29G x 1/2") or B-D Ultra-Fine III (31G x 5/16") pen needles.
- B. **B-D Pen Mini:** Same as above with the exception that dosage increments are delivered in 0.5 to 15 units in 1/2 unit increments.
- C. **Disetronic Pen:** "Open system" allows use on any type, manufacturer, and mixture of insulin. Uses disposable 315 unit (3.15 ml) plastic cartridges. Delivers insulin in 1-unit increments from 1 to 80 units per injection using standard 30G needles.
- D. **Humalog Pen:** Pre-filled, disposable insulin delivery device that holds 3.0 ml (300 units) of rapid acting insulin. No refrigeration needed after the first use. Humulin Pen: Same as Humalog Pen but contains insulin with different duration of action times.
- E. **NovoPen 1.5:** Delivers insulin in 1-unit increments up to 40 units; designed for use with Novolin PenFill 1.5 ml cartridge and NovoFine 30 disposable needle.
- F. **Autopen AN 3100:** Has a release button extension that aids in the automatic delivery of insulin from any 1.5 ml glass insulin cartridge. This model delivers insulin in 1-unit increments.

Standard Procedure for Insulin Pen Delivery Systems

Pupil	DOB	School	Grade
Equipment 1. Insulin pen And Supplies 2. Insulin cartridge 3. Pen needles			4. Cotton balls5. Alcohol/swabs6. Sharps container
	Essential Steps		oints & Precautions
 Always obtai administratio 	in a blood glucose reading prior to insulin on.	This will help determine amo	ount of insulin to be given.
2. Determine in	sulin dose with physician's orders.		d noon dose, based on the blood glucose e" (spot dose) of insulin for hyperglycemia.
3. Assemble ins	sulin pen, pen needle and alcohol.		
4. Check insulinorders.	n type/brand. This must match physician's		
5. Check the lev cartridge.	vel of insulin remaining in the insulin	Cartridges are made for multi remains in the cartridge for a	iple doses. Ensure that enough insulin accurate dosing.
plastic needle	needle. Remove outer plastic cap and e cap. Place outer needle cap on a flat open end facing up.	This will assist in needle dis	posal after insulin is given.
	nits of insulin to perform an "air shot." d appear at needle tip. If it does not, lure.		cause air intake. This procedure ensures that released, thereby ensuring accurate insulin
8. Dial in prescr			
injecting.	with alcohol and allow to dry, before		
into the soft j	skin at selected area and dart the needle pocket at a 90 degree angle.	The soft pocket lies directly	in front of or in back of the pinched up skin.
11. Inject insulin	•		
•	to three and then remove the needle.		
cap that was needle tip and	pen, place the needle into plastic needle left upright on a flat surface. Unscrew the d carefully discard into a sharps container.	the counter and use the pen possibility of finger stick in. The needle must be changed	ngers to cover needle tip. Leave cap on to place the needle into the cap to avoid jury. I after each injection, as leaving the pen PEN passageway into the insulin and
14. Document or	n Procedure Log.		

Insulin Pump Therapy

General Information

- A. Insulin Pump Therapy is also referred to as Continuous Subcutaneous Insulin Infusion (CSII). The pump is worn outside the body and is about the size and weight of a pager. It holds a reservoir of insulin inside the pump and is programmed to deliver the insulin through a thin plastic tube called an infusion set. The infusion set is inserted via a needle that is covered by a cannula just below the skin. Once inserted, the needle is removed and the cannula stays in place for two to three days. When it is time to change the infusion set, a new infusion set is inserted into a different site.
- B. The goal of Insulin Pump Therapy is to achieve near normal blood glucose levels over 24 hours per day. The use of CSII has been shown to improve growth in children, decrease the incidence of hypoglycemia, and decrease the incidence of long term diabetes complications.

The role of the school in supporting Insulin Pump Therapy is to promote the student's independent management of their diabetes via insulin pump use and to achieve tight control of the diabetes with minimal episodes of hypo/hyperglycemia.

- C. The advantages of CSII are that it affords more flexibility of life-style with less variability of insulin absorption, more precise insulin administration matched with food intake and activity levels, and overall close attention to diabetes management.
- D. The pump uses a short acting insulin as opposed to conventional injections which use short and long-acting insulin.
- E. Insulin Pump Therapy combines a continuous basal/rate of insulin for 24 hours and a bolus dose for meal or snack times and times of high blood glucose.
 - 1) **Basal rate:** amount of insulin required when no food is eaten; a pre-programmed feature measured in units per hour (U/H); can be altered based on the pumper's daily needs; can be temporarily changed for alteration in schedule, activity, illness or food
 - 2) **Bolus:** when the pump is programmed to give a dose of insulin for meals, snacks and/or for correction of elevated blood glucose.
- F. The specific pump manufacturer instructions must be followed. Manuals, booklets, and videos are usually available free of charge by calling the number listed on the back of the pump
- G. If the supply of insulin is interrupted due to mechanical pump failure, dislodgment of the cannula, accidental severing of the tubing, or clogged or obstructed tubing, the blood glucose level can rise rapidly. In case one of these incidents should occur, it is necessary for extra supplies to be kept at school to prevent of limit the subsequent hyperglycemia and possible ketacidosis (can occur in as little as 3 hours).
- H. The pump can be disconnected using a quick release set. This is usually done during water activities or contact sports.
- I. A 3x5 card with the student's name, pump model and serial number, and the pump manufacturer's help line phone number should be readily available in the health office for any problems that might occur.
- J. A wallet sized programming card and an alarm card or manufacturer's instructions should be available in the health office for reference.

Insulin Pump Therapy For Students Independent Performance

- A. The school nurse needs to ensure that the following actions will occur:
 - 1. The student will be responsible for proper needle/catheter site preparation and insertion.
 - 2. The student will be responsible for programming the pump functions.
 - 3. The student agrees to immediately report to designated school personnel any pump malfunctions (dead batteries, high-pressure alarm/no delivery, etc.) and to request assistance when needed.
 - 4. The student will be responsible for delivering the appropriate insulin amount based on blood glucose testing values, anticipated exercise and planned food consumption.
 - 5. The student/parent will take responsibility for taking care of any skin site problems (bleeding, tenderness, itching, oozing, etc.). If the tubing becomes dislodged at school the student will report immediately to the school office and insert a new set.
 - 6. Universal precautions will be used by the student when discarding infusion sets, and needles. Needles will be placed in a sharps container. Infusion sets can be placed in a Zip-Loc baggie and discarded in a lined wastebasket.
 - 7. Student will be responsible for notifying parent(s)/care provider of any pump incidents.
 - 8. The student will be responsible for ensuring pump/tubing safety during physical activities. If the student chooses to use a quick-release set during activities, he/she will ensure that euglycemia is maintained as much as possible (checking blood glucose before, during and after activities and taking extra carbohydrates as needed).
 - 9. School nurse will ensure that the student maintains safety and health while at school.

School nurse will do general staff training for recognition of signs and symptoms of hyper and hypoglycemia for providing assistance to students if needed.

	Parent Responsibilities		Student Responsibilities
1. 2.	Checking site, ensuring tubing patentcy and checking insulin reservoir prior to student attending school each day. Programming pump functions that include basal rate, alternate	1.	Report to appropriate school personnel any pump incidents such as low battery alarm, no delivery alarm, accidental severing or dislodgment of tubing.
3.	basal rates, square wave boluses, and/or temporary basal rates. Reinserting a new infusion set if any skin site problems (bleeding, tenderness, itching, oozing, etc.) occur and abide by universal precautions when discarding infusion sets, and needles at school (needles will be placed in a sharps container; infusion sets can be placed in a Zip-Loc baggie and discarded in a lined wastebasket).		
4.	Be accessible at all times via cell phone or pager for potential pump alarms, cannula reinsertion or clogging, and/or accidental severing of the tubing		
5.	Calculate the number of carbohydrates the child will be receiving for snack and/or school lunch (school food services director can provide menu breakdowns) or pre-packed lunch. This will be written down on the School-Home Diabetes Monitoring Log for Insulin Pump (see attached) and sent daily to the school nurse.		

Insulin Pump Therapy

Student Independent Performance Standard Procedure for Hyperglycemia with Pump Therapy

Pupil	DOB	School	Grade		
Equipment	Infusion set and reservoir Tage to secure infusion set (Tagedorm, Page 1).	olygkin On Sito	5. Sof-serter		
and Supplies	2. Tape to secure infusion set (Tegaderm, Poetc.)	Polyskin, Op-Site, 6. Pump programming and alarm card Extra supplies in case of pump malfunction			
	Items needed to prep skin site (alcohol sv etc) Extra batteries	vabs, betadine,	7. Insulin, and syringe		
	Essential Steps	Key Points & Precautions			
tenderness. the site imm	·	site, and insert the The cannula can I minimizes the cha use an infusion se an angle with a lo less body fat. Th Student to dispos	emble equipment, prime tubing, prep the insertion e infusion set using clean technique. be inserted using a Sof-serter tool. This ances of improper insertion. Some pump wearers et(Silhouette or Tender Twos) that is inserted at onger cannula. This is used for those who have e Sof-serter cannot be used with these sets e of the insertion needle in a sharps container.		
	dard procedure for hyperglycemia	Student may need assistance.			
new infusio	st check blood glucose 30 minutes after inserting a n set and/or any correction bolus to ensure that se is responding to insulin.	•	ary to continue checking blood glucose levels event potential hypoglycemia.		

Standard Procedure for Hypoglycemia with Pump Therapy

	Standard Procedure for Hypogrycenna with Fullip Priciapy								
	Essential Steps	Key Points & Precautions							
1.	Follow standard procedure for Low Blood Glucose. The student should be knowledgeable regarding what actions to take during exercise.	Student may need assistance. General staff training is necessary for recognition of signs and symptoms and obtaining assistance for student. The student should be knowledgeable regarding what actions to take during exercise. The pump can be programmed to "suspend" function during exercise so hypoglycemia can be avoided or extra carbohydrates can be consumed for every 30 minutes of exercise.							
2.	If problems continue call notify the school nurse.	School nurse will notify parents and confer with physician.							

Standard Procedure for Pump Malfunction

	Standard Procedure for Pump Manunction								
	Essential Steps	Key Points & Precautions							
1.	Trouble shoot alarms.	Follow manufacturer's instructions for alarm Indication. Student must be knowledgeable regarding pump alarms. A reference card can assist with troubleshooting steps or the manufacturer's 800 number can be called (listed on the back of the pump).							
a.	LOW BATTERY:	Student to insert new batteries according to instructions.							
b.	NO DELIVERY	Check reservoir; student to refill if it is empty. Cannula may be obstructed or kinked; student must insert new infusion set.							
2.	If student is unable to restart pump function, parent and school nurse must be notified immediately.	An injection of short acting insulin maybe ordered.							
3.	Parent/care provider may choose to take student home for further monitoring. If student remains in school, the school nurse will contact the healthcare provider for further instructions.								
4.	Follow Standard Procedure for Hyperglycemia.								
5.	Document any incidents on procedure log.								

Insulin Pump Therapy <u>Student Requiring Supervision</u> Standard Procedure for Hyperglycemia with Pump Therapy

Pupil	DOB	School	Grade	
Equipment and Supplies	 Infusion set and reservoir Tape to secure infusion set (Tegaderm, Polysk Items needed to prep skin site (alcohol swabs, Extra batteries 		 5. Sof-serter 6. Pump programming and alarm card Extra supplies in case of pump incident: 7. Insulin, and syringe 	
	Essential Steps	Key Points & Precautions		
tenderness. If	leakage, cannula dislodgement, redness, and/or any of these are present, call parents to change et immediately.	Redness and/or to	enderness at the site may indicate obstruction.	
	glucose. Parents will need to bolus a correction on the blood glucose.	dose to ensure the	ast be checked 30 minutes after a correction at the blood glucose is responding to insulin. It to continue checking blood glucose levels event potential hypoglycemia.	

Standard Procedure for Hypoglycemia with Pump Therapy

Follow Standard Procedure for Hypoglycemia.	Hypoglycemia cannot always be avoided although the parent/care provider should be knowledgeable regarding actions to prevent hypoglycemia during planned exercise. If vigorous exercise is anticipated the parent may pre-program pump function to "suspend" or temporarily decrease to avoid hypoglycemia. Another alternative is for the child to consume extra carbohydrates before, during, and/or after exercise. Accommodations must be
	addressed in the ISHP.

Standard Procedure for Pump Alarms

Essential Steps	Key Points & Precautions
Trouble shoot alarms:	Follow manufacturer's instructions for alarm indication. A reference card can assist with troubleshooting steps or call the
	manufacturers 800 number (listed on the back of the pump).
a. LOW BATTERY	Insert new batteries according to instructions.
b. NO DELIVERY	Check insulin reservoir; if it is empty call parents to refill. Cannula may be obstructed or kinked; call parents for insertion of new infusion set.
If unable to troubleshoot pump call school nurse so student can be monitored closely and receive appropriate medical care	School nurse will notify parents and contact the physician for further orders. An injection of short acting insulin maybe ordered.
3. Follow standard procedure for hyperglycemia.	
4. Document any incidents on procedure log.	Keep parents informed of any issues at school.

Diabetes Monitoring Log

STUDENT'S NAME:					BIRTHDATE: GRADE:	
PARENT:				PHO	NE: SCHOOL NURSE: PHONE:	
Date	Time	Blood Glucose	Ketones (neg., S, M, L)	Insulin Dose	Comments: (note any unusual circumstances e.g. extra food intake, hypoglycemic rx, exercise, changes in routine, etc.)	Initials
	· · · · · · · · · · · · · · · · · · ·					

Signature of Staff Providing Care	Initials	Signature of Staff Providing Care	Initials	Signature of Staff Providing Care	Initials

Diabetes Monitoring Log for Insulin Pump

STUDENT'S NAME:					BIRTHDATE: GRADE:				
PARENT:			PHONE: SCHOOL NURSE:			:			
Date	Carbs			Time	Blood	Keytones (neg., Total Insulin		Comments(note any unuusal	ısal Initials
	Snack Lunch				Blucose	S, M, L)	Bolus	circumenstances)	
								I	
Signature of Staff Providing Care Initials Signature of Staff Prov					roviding Care	Initials	Signature of	Staff Providing Care	Initials

LOW BLOOD GLUCOSE TREATMENT FOR SCHOOL NAME:_____ **PICTURE** GRADE/TEACHER: DATE: CAUSES Too much insulin **ONSET** Missed food Delayed food Too much exercise Sudden Unscheduled exercise SYMPTOMS* **SEVERE MILD MODERATE** Unable to swallow Hunger Dizziness Sleepiness Combative Irritable Pallor Erratic behavior Unconscious Shakiness Sweating Poor coordination Seizure Drowsy Confusion Weak Crying Slurred soeech Sweaty Anxious Headache Unable to concentrate Numbness of lip & Tongue Other:___ ACTION NEEDED **Notify School Nurse** If possible, check blood glucose per plan But always when in doubt TREAT MILD MODERATE **SEVERE** ☐ Provide sugar source □ Call 911 ☐ Provide glucose source: 2-3 glucose tablets or 3 glucose tablets or ☐ Give Glucagon, if ordered 4 to 8 oz. Juice or 15 gm. Glucose gel ☐ Position on side 4 to 8 oz. Regular soda or Glucose ☐ Wait 10 minutes. Repeat ☐ Contact parents & School gel product or 3 to 8 Lifesavers glucose if symptoms Nurse ☐ Wait 10 minutes persist or blood glucose ☐ Repeat sugar source if symptoms less than 70. persist or blood glucose less than ☐ Follow with a snack of carbohydrates & protein, ☐ Provide a snack of carboyhdrates & i.e. crackers and cheese protein, i.e. crackers and cheese. ☐ Notify parents Communicate with parents. School Name:

Adapted from "Washington State Task Force for Students with Diabetes" Manual, 1999

*Never send a child with suspected low blood glucose anywhere alone

Nurse Contract Number: _____

NAME: **PICTURE** GRADE/TEACHER: DATE: CAUSES Too much food ONSET Too little insulin Decreased activity Over time - several Illness, Infection hours or days Stress SYMPTOMS* Early symptoms: Symptoms progressively become worse: Thirst/dry mouth Sweet breath Frequent urination Weight loss Fatigue/Sleepiness Facial flushing Increased hunger Dry, warm skin Blurred Vision Nausea/stomach pains Vomiting Lack of concentration Weakness Confusion Labored breathing Unconsciousness/coma ACTION NEEDED If possible check for urine or blood ketones FOR VOMITING WITH **NEGATIVE, TRACE OR SMALL MODERATE - LARGE** KETONES KETONES CONFUSION, LABORED BREATHING AND/OR ☐ Provide 1-2 glasses of water every hour Same steps as "negative, trace ☐ Check urine or blood ketones, if or small ketones" plus: COMA ordered □ Call 911 ☐ No exercise if ketones present ☐ Contact school nurse ☐ Contact school nurse ☐ Provide bathroom privileges as needed immediately (student must ☐ Notify Patents Notify parents be referred for medical Notify school nurse if this occurs 2 or treatment) more times in a week School Name: Adapted from Manual developed by "Washington State Task Force for Students with Diabetes" Nurse Contract Number: _____

HIGH BLOOD GLUCOSE TREATMENT FOR SCHOOL